




## Prescientx Puts Health and Wellness First with Humidity Control

TE Series  
EL Series

- Precise humidity control
- Creates healthy and safe environments
- Energy savings
- Low maintenance





With the 40/60 rule firmly in mind for optimal indoor relative humidity, Prescientx teams up with Condaire to procure a highly efficient and effective solution for their operations.

## Project Overview

**Prescient<sup>x</sup>**

**Customer:** Prescientx

**Location:** Cambridge, Ontario

**Application:** Office & Warehouse

**Product:** TE Series & EL Series

### The benefits of Condaire's humidification solutions

- Consistent humidity control
- Maximum airborne infection control
- Hygienic and safe spaces for employees and visitors alike
- Easy installation and minimal maintenance

## Abstract

Prescientx, a wholesaler of UV cleaning and disinfection solutions optimized to safeguard our health and wellness, was looking to implement the same level of proactivity in their humidity and temperature control system. Their 40,000-square-foot facility in Cambridge, Ontario, staffed by 24 employees, needed a regulated and seamless management of indoor environmental conditions. Working closely with Condaire and contractor AAA Air Conditioning Inc, an efficient and cost-effective solution was found in a combination of Condaire EL which was previously installed in the facility and Condaire's new TE Series units.

## Challenge

"Our facility consists of a mix of office and production spaces, and it was essential that we keep the humidity in both within the 40 to 60 percent RH range," says Keith McGlone, Vice-President of IPC at Prescientx. "We're firm believers in the scientific findings on the subject – that this goldilocks range of humidity control can minimize health and wellness complications – and we're always striving to ensure maximum employee comfort."

As part of their engineered infection prevention strategy, Prescientx developed a relationship with the Condaire team, which led to discussions





TE Series Humidifier

focused on how best to ensure proper humidity control throughout their facility. The COVID-19 pandemic was the catalyst for ensuring maximum airborne infection control efficiency, they had long been invested in providing a safe, welcoming, and healthy work environment conducive to optimal productivity and employee happiness.

“Our team means everything to us, and it was imperative even before the pandemic that we implemented a solution that would not only work well, but perform admirably for years to come,” McGlone says. “That’s where Condaire and AAA Air Conditioning came into the picture – we needed an installation team and process we could trust, not to mention the right equipment. The key is the ability to maintain our goals for humidity. We expect the units installed to be reliable and easy to maintain.”

## Solution

That ideal choice of equipment came in the form of two elements. The first, the Condaire TE (Tile Evaporative) Series, is a state-of-the-art ceiling mounted evaporative humidifier. This unit is quick and easy to install while operating independently of onsite HVAC equipment, and it is one of the most energy-efficient humidifiers available today with a power rating of only 97 watts. Drawing dry air within the space through a wetted polyester media cassette, the TE Series increases and regulates the air moisture content by evaporating water and reintroducing the drawn air back into the airstream.

“The TE Series was new to North America, and we’re interested in sharing the technology with potential

customers. We’ve got it set up in a 1,600-square-foot office space and it works very smoothly. We can even extend the cassette life by adjusting drain frequency based on the water supply,” says McGlone. “It’s small, compact and can be installed in a suspended ceiling pretty easily saving real estate area – it doesn’t get in the way and we often don’t notice it. However, we know it’s doing what it’s supposed to.”

“All is well. The TE Series in particular has been excellent for us – it’s straightforward to maintain and took hardly any time to have it installed, so the whole process has been relatively smooth,” says McGlone.

The other piece of the puzzle, which was installed prior to the TE Series, was two Condaire EL Series units, that offered regulated and high-efficiency electrode steam humidification for the rest of the

40,000 square-foot facility which is comprised mostly of warehouse space. This ensures no unexpected dips in relative humidity, with the indoor conditions holding steady around 52 percent RH – ideal for human occupation while minimizing viral outbreak risks, especially during the pandemic.



Ensuring indoor spaces have a relative humidity of 40-60% minimizes airborne viruses keeping workplaces healthy and productive.



## Results

“All is well. The TE Series in particular has been excellent for us – it’s straightforward to maintain and took hardly any time to have installed, so the whole process has been relatively smooth,” says McGlone. “During the pandemic, we were able to stay open and fully operational thanks to our focus on ensuring a very safe, clean indoor space for employees. In fact, whenever the Ministry of Labour stops by, they’re rather impressed with the measures we’ve taken – and that includes our approach to humidity control.”

Scalable and designed for small-to-medium spaces, the TE Series units in particular have demonstrated their suitability for a variety of applications including those relative to Prescientx. Airborne transmission vectors are now becoming common knowledge as environments such as manufacturing and office spaces, schools, and others are looking for ways to improve their airborne infection control efficiency. With no contractor needed for regular maintenance, this has proven its worth as a cost-effective, time-saving measure for future-facing operations.

## The Sterling Chart

The Sterling Chart illustrates how relative humidity affects health and well-being and shows that the optimal air humidity level for humans is between 40 to 60% RH. This optimal humidity zone minimizes risks to human health from biological contaminants and pathogens.

Colds, viruses, respiratory infections, dry eyes, itchy and cracked skin are all symptoms that are usually prevalent in the cold dry months of the winter when the indoor RH is at its lowest.

Scofield-/Sterling-Diagram

